

DEPARTMENT OF TRANSPORTATION  
FEDERAL AVIATION ADMINISTRATION

A00011LA  
Revision 1  
Gippsland Aeronautics  
GA8  
March 30, 2004

TYPE CERTIFICATE DATA SHEET A00011LA

This data sheet, which is part of the Type Certificate No. A00011LA, prescribes conditions and limitations under which the product for which the type certificate was issued meets the airworthiness requirements of the Federal Aviation Regulations.

Type Certificate Holder                      Gippsland Aeronautics Pty. Ltd.  
    Latrobe Regional Airport  
    PO Box 881  
    Morwell  
    Victoria 3840  
    Australia

I.    GA8 (Normal Category) Approved May 30, 2003

Engine    Textron Lycoming IO-540-K1A5  
    Type Certificate:    1E4

Fuel    100LL or 100/130 aviation gasoline.

Engine Limits                                      Maximum Takeoff Power              2700 R.P.M. and 300 HP  
    Maximum Continuous Power        2500 R.P.M. and 275 HP

Propeller and Propeller Limits                Hartzell HC-C2YR-1BF/F8475R metal constant speed  
    Type Certificate:    P920  
    Not over 84 inches (2134 mm) diameter  
    Not under 78 inches (1981 mm) diameter  
    No further reduction permitted  
    Pitch settings at 30 in. sta.:  
    High: 29±1°  
    Low: 12±0.2°

Airspeed Limits (IAS)                              Never Exceed                              V<sub>ne</sub> 185 kts  
    Max structural cruise                      V<sub>no</sub> 143 kts  
    Manoeuvring                                  V<sub>a</sub> 121 kts  
    Max flaps extended                          V<sub>fe</sub> 97 kts

Center of Gravity  
(C.G.) Range                                      Forward Limit:  
    +48.0 inches (+1219 mm) aft of datum at 2400 lbs. (1089 kg.) or less.  
    +56.0 inches (+1422 mm) aft of datum at 4000 lbs. (1814 kg.)  
    Variation is linear between 2400 lbs. (1089 kg) and 4000 lbs. (1814 kg.)  
    Aft Limit:  
    +64.0 inches (+1626 mm) aft of datum at 4000 lbs. (1814 kg) or less

Empty Weight C. G. Range                      None.

Datum    Aft face of Fuselage firewall at fuselage station 0 (stated arms are positive aft; negative forward).

Leveling Means                                      Longitudinal: Level between pop rivets so marked, on left hand side of fuselage.  
    Lateral:              Level across floor at rear door.

Page No.	1	2	3
Rev. No.	1	0	1

Maximum Weight	Take-off	4000 lbs. (1814 kg.)
	Landing	4000 lbs. (1814 kg.)
No. of seats	Eight (8)	
	( 2 at +38.0 inches (+965 mm) aft of datum	
	2 at +69.8 inches (+1772 mm) aft of datum	
	2 at +99.3 inches (+2523 mm) aft of datum	
	2 at +127.8 inches (+3247 mm) aft of datum )	

Fuel Capacity	Main wing tanks	2 (1 tank each wing)
	Total each tank	44.9 US Gallons (170 litres) at +67.5 inches (+1715 mm)
	Useable each tank	43.8 US Gallons (166 litres) at +67.5 inches (+1715 mm)
	Unusable each tank	1.1 US Gallons (4 litres) at +72.0 inches (+1829 mm)
	Collector tank	Total capacity 2.4 US Gallons (9 litres) is unusable fuel at +27.75 inches (+705 mm)

See Note 1 for data on weight and balance

Oil Capacity	Total capacity	12 US Quarts (11.4 litres) at -21.3 inches (-540 mm)
	Useable	9.25 US Quarts (8.8 litres) at -21.3 inches (-540 mm)

See Note 1 for data on weight and balance

Control Surface Movements	Aileron	Up	$17^{\circ} \pm 0.5^{\circ}$
		Down	$16^{\circ} \pm 0.5^{\circ}$
	Elevator	Up	$15^{\circ} \pm 0.5^{\circ} (1)$
		Down	$19^{\circ} \pm 0.5^{\circ} (1)$
	Rudder	L & R	$21^{\circ} \pm 0.5^{\circ}$
	Horizontal Stabiliser	Up	$2^{\circ} \pm 0.5^{\circ} (2)$
		Down	$5^{\circ} \pm 0.5^{\circ} (2)$
	Wing flaps	Retracted	$0^{\circ} \pm 1.0^{\circ}$
		Take-off	$14^{\circ} \pm 1.0^{\circ}$
		Landing	$38^{\circ} \pm 1.0^{\circ}$

- (1) Elevator control surface movements measured between the chord line of the Elevator and the chord line of the horizontal stabiliser with the horizontal stabiliser in the full leading edge down position.
- (2) Horizontal Stabiliser movement measured between the chord line of the Horizontal Stabiliser and the airplane horizontal reference.

Serial Numbers Eligible      GA8-03-026 and up provided Gippsland Aeronautics Service Bulletin SB-GA8-2003-05 is compiled with.  
GA8-00-004 through GA8-03-025 are eligible if Gippsland Aeronautics Service Bulletins SB-GA8-2003-04 and SB-GA8-2003-05 are compiled with.

Import Requirements      A United States airworthiness certificate may be issued on the basis of an Australian Export Certificate of Airworthiness signed by a representative of the Civil Aviation Safety Authority (CASA) containing the following statement:  
“The airplane covered by this certificate has been examined, tested and found to comply with the Master Drawing GA8-010001 and Engineering Release CASA approved revisions, and Gippsland Aeronautics Service Bulletins SB-GA8-2003-04 (if applicable) and SB-GA8-2003-05, approved under U.S. Type Certificate No. A00011LA and to be in a condition for safe operation.”

Gippsland Aeronautics Service Bulletins SB-GA8-2003-04 (if applicable) and SB-GA8-2003-05 must be accomplished, before the U.S. Type Certificate No. A00011LA can be added to the aircraft data plate by the manufacturer.

	The U.S. airworthiness certification basis for this airplane type certificated under FAR 21.29 and exported by the country of manufacture is FAR 21.183(c).
Certification Basis	<p>FAR 23, dated December 18, 1964, with amendments 1 through 54 “Airworthiness Standards for Normal Category Airplanes”:</p> <p>FAR 36.1(a)(2), dated December 1, 1969 with amendments 1 through 24 “Noise Standards: Aircraft Type and Airworthiness Certification”</p> <p>TC A00011LA issued on May 30, 2003.</p> <p>For aircraft eligible for IFR operations the certification basis is FAR 23 dated December 18, 1964 with amendments 1 through 55 “Airworthiness Standards for Normal Category Airplanes”</p>
Equipment	<p>The basic required equipment as prescribed in the applicable airworthiness regulations (see Certification Basis) must be installed in the airplane for certification.</p> <p>In addition the approved Aircraft Flight Manual Report No C01-01-04 dated May 29, 2003, or later approved version, must be carried.</p> <p>See Note 5.</p> <p>To be eligible for IFR operations AFM Report No. C01-01-04, dated December 22, 2003, or later CASA approved versions, must be carried.</p> <p>IFR required equipment is shown in AFM Limitations section 2, table 2-11, dated December 22, 2003, or later revisions.</p>
Notes	<p>Note 1. A current weight and balance report, including a list of equipment included in the certificated empty weight, and loading instructions when necessary, must be provided for each airplane at the time of original certification.</p> <p>The certificated empty weight and the corresponding center of gravity location must include full oil [22.5 lbs. (10.3 kg) at -21.3 inches (-540 mm)] and unusable fuel [12.7 lbs. (5.7 kg) in main tanks at +79.6 inches (+2022 mm) and 14.3 lbs. (6.5 kg) in collector tank at +27.75 inches (+705mm)].</p> <p>Note 2. All required placards are contained in Chapter 2 of the Airplane Flight Manual, Report C01-01-04, and must be installed in the appropriate locations.</p> <p>Note 3. Service life of structural components are listed in the Airworthiness Limitations Section, Chapter 4, of the Airplane Service Manual, Report No. C01-00-04. The Airworthiness Limitations Section was approved by CASA (for the FAA) and revisions to this section must be approved by CASA on behalf of the FAA.</p> <p>Note 4. Instructions for continued airworthiness are contained in the Airplane Service Manual, Report No. C01-00-04. The instructions for continued airworthiness for aircraft eligible for IFR operations are contained in the Airplane Service Manual, Report No. C01-00-04 dated December 22, 2003 or later CASA approved version.</p> <p>Note 5. The Airplane Flight Manual, Report No. C01-01-04, was approved by CASA (for FAA). Revisions to this report may be approved by CASA on behalf of the FAA.</p> <p>Note 6. Airplanes must comply with the requirements of Gippsland Aeronautics Service Bulletin SB-GA8-2003-08 Issue 2, dated December 22, 2003 or later CASA approved revisions, to be eligible for IFR operations.</p>

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